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#### ABSTRACT

A non-single-crystalline semiconductor material and a device utilizing the material, the material being of an intrinsic or substantially intrinsic conductivity type and including silicon and containing a dangling bond neutralizer consisting of hydrogen and/or a halogen wherein the concentration of carbon contained in the semiconductor material is less than  $4 \times 10^{18}$  and the concentration of boron contained in the semiconductor material is not higher than  $2 \times 10^{17}$  atoms/cm<sup>3</sup>.